

GC381-US-seqlist  
SEQUENCE LISTING

&lt;110&gt; Estell, David A.

&lt;120&gt; Proteases From Gram-Positive Organisms

&lt;130&gt; GC381-US

&lt;140&gt; US 09/462,846

&lt;141&gt; 2000-01-13

&lt;150&gt; PCT/US98/19529

&lt;151&gt; 1998-07-14

&lt;150&gt; EP 97305227.7

&lt;151&gt; 1997-07-15

&lt;160&gt; 7

&lt;170&gt; FastSEQ for Windows Version 3.0

&lt;210&gt; 1

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Bacillus subtilis

&lt;400&gt; 1

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180  
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240  
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300  
gaatatgcca acatacatga aaacggtgag cttggaaaaa cagaatgctg gtacattatt  
360  
gattgccaaa aagatgccga gattatttat ggccacaatg caacaacaaa ggaagaacta  
420  
actaccatga tagagcgtgg agaatgggat gagctcttgc gccgtgtaaa ggtaaagccg  
480  
ggggattttt tctatgtgcc aagcgggtact gttcatgcga ttggaaaagg aattcttgct  
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600

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 780  
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 900  
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 945

&lt;210&gt; 2

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Bacillus subtilis

&lt;400&gt; 2

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Leu	Leu	Thr	Lys	Ile	Leu	Asp	Ala	Asp	Gln	Asp	Leu	Ser	Val	Gln	Val
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His	Pro	Asn	Asp	Glu	Tyr	Ala	Asn	Ile	His	Glu	Asn	Gly	Glu	Leu	Gly
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Gly	Asp	Phe	Phe	Tyr	Val	Pro	Ser	Gly	Thr	Val	His	Ala	Ile	Gly	Lys
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Gly	Ile	Leu	Ala	Leu	Glu	Thr	Gln	Gln	Asn	Ser	Asp	Thr	Thr	Tyr	Arg
			180					185					190		
Leu	Tyr	Asp	Tyr	Asp	Arg	Lys	Asp	Ala	Glu	Gly	Lys	Leu	Arg	Glu	Leu
		195					200					205			
His	Leu	Lys	Lys	Ser	Ile	Glu	Val	Ile	Glu	Val	Pro	Ser	Ile	Pro	Glu
	210					215					220				
Arg	His	Thr	Val	His	His	Glu	Gln	Ile	Glu	Asp	Leu	Leu	Thr	Thr	Thr

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225					230					235					240
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				245					250					255	
Ser	Ala	Ser	Leu	Lys	Gln	Gln	Lys	Pro	Phe	Leu	Leu	Ile	Ser	Val	Ile
			260					265					270		
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		275					280					285			
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&lt;210&gt; 3

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Bacillus subtilis

&lt;400&gt; 3

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65				70					75						80
Gln	Leu	Val	Ala	Gln	Tyr	Gly	Ile	His	Tyr	Arg	Asn	Thr	Tyr	Pro	Tyr
			85					90					95		
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			100					105					110		
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		115					120					125			
Leu	Leu	Tyr	Ser	Ile	Ala	Asn	Gln	Pro	Val	Ser	Val	Val	Leu	Glu	Ala
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145					150					155					160
Cys	Gly	Asn	Lys	Val	Asp	His	Ala	Val	Ala	Ala	Val	Gly	Tyr	Gly	Pro
				165					170					175	
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			180					185					190		
Gly	Tyr	Ile	Arg	Ile	Lys	Arg	Gly	Thr	Gly	Asn	Ser	Tyr	Gly	Val	Cys
	195						200					205			
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	210					215					220				

&lt;210&gt; 4

GC381-US-seqlist

<211> 948

<212> DNA

<213> Bacillus subtilis

<400> 4

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240
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gattactatg ccggagaaaa cgaagaggga gaactcggca agacggaatg ctggtacatt
360
atcgactgta aggaaaacgc agaaatcatt tacgggcata cggcccgcctc aaaaaccgaa
420
cttgtcacia tgatcaacag cggtgactgg gagggcctgc tgcgaagaat caaaattaaa
480
ccgggtgatt tctattatgt gccgagcgga acgctgcacg cattgtgcaa gggggccctt
540
gttttagaga ctacgcaaaa ttcagatgcc acataccggg tgtacgatta tgaccgtctt
600
gatagcaacg gaagtccgag agagcttcat tttgccaaag cgggtcaatgc cgccacgggt
660
cccatgtgg accgggtatat agatgaatcg acagaatcaa gaaaaggaat aaccattaaa
720
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780
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840
tatgaggaca aaacatgtcc gctcaaaaaa ggtgatcact ttattttgcc gggtcaaag
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<210> 5

<211> 316

<212> PRT

<213> Bacillus subtilis

<400> 5

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Lys	Gly	Ala	Leu	Val	Leu	Glu	Thr	Gln	Gln	Asn	Ser	Asp	Ala	Thr	Tyr
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Arg	Val	Tyr	Asp	Tyr	Asp	Arg	Leu	Asp	Ser	Asn	Gly	Ser	Pro	Arg	Glu
		195					200					205			
Leu	His	Phe	Ala	Lys	Ala	Val	Asn	Ala	Ala	Thr	Val	Pro	His	Val	Asp
	210					215					220				
Gly	Tyr	Ile	Asp	Glu	Ser	Thr	Glu	Ser	Arg	Lys	Gly	Ile	Thr	Ile	Lys
225					230					235					240
Thr	Phe	Val	Gln	Gly	Glu	Tyr	Phe	Ser	Val	Tyr	Lys	Trp	Asp	Ile	Asn
				245					250					255	
Gly	Glu	Ala	Glu	Met	Ala	Gln	Asp	Glu	Ser	Phe	Leu	Ile	Cys	Ser	Val
			260					265					270		
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		275					280					285			
Lys	Lys	Gly	Asp	His	Phe	Ile	Leu	Pro	Ala	Gln	Met	Pro	Asp	Phe	Thr
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305					310					315					

&lt;210&gt; 6

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Bacillus subtilis

&lt;400&gt; 6

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540  
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600  
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780  
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<210> 7  
<211> 315  
<212> PRT  
<213> Bacillus subtilis

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Lys Thr Gly Glu Cys Trp Ala Val Ser Ala His Ala His Gly Ser Ser  
35 40 45  
Ser Val Lys Asn Gly Pro Leu Ala Gly Lys Thr Leu Asp Gln Val Trp  
50 55 60  
Lys Asp His Pro Glu Ile Phe Gly Phe Pro Asp Gly Lys Val Phe Pro  
65 70 75 80  
Leu Leu Val Lys Leu Leu Asp Ala Asn Met Asp Leu Ser Val Gln Val  
85 90 95  
His Pro Asp Asp Asp Tyr Ala Lys Leu His Glu Asn Gly Asp Leu Gly  
100 105 110

GC381-US-seqlist

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				165					170						175		
Gly	Thr	Leu	Val	Leu	Glu	Ile	Gln	Gln	Asn	Ser	Asp	Thr	Thr	Tyr	Arg		
			180					185						190			
Val	Tyr	Asp	Tyr	Asp	Arg	Cys	Asn	Asp	Gln	Gly	Gln	Lys	Arg	Thr	Leu		
		195					200					205					
His	Ile	Glu	Lys	Ala	Met	Glu	Val	Ile	Thr	Ile	Pro	His	Ile	Asp	Lys		
	210					215					220						
Val	His	Thr	Pro	Glu	Val	Lys	Glu	Val	Gly	Asn	Ala	Glu	Ile	Ile	Val		
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Tyr	Val	Gln	Ser	Asp	Tyr	Phe	Ser	Val	Tyr	Lys	Trp	Lys	Ile	Ser	Gly		
				245					250						255		
Arg	Ala	Ala	Phe	Pro	Ser	Tyr	Gln	Thr	Tyr	Leu	Leu	Gly	Ser	Val	Leu		
			260					265						270			
Ser	Gly	Ser	Gly	Arg	Ile	Ile	Asn	Asn	Gly	Ile	Gln	Tyr	Glu	Cys	Asn		
		275					280					285					
Ala	Gly	Ser	His	Phe	Ile	Leu	Pro	Ala	His	Phe	Gly	Glu	Phe	Thr	Ile		
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Glu	Gly	Thr	Cys	Glu	Phe	Met	Ile	Ser	His	Pro							
305					310					315							